

<210> 508
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>
<223> At positions 9, 20 and 21, D amino acid residues

<400> 508
Lys Lys Gly Phe Phe Ala Leu Ile Pro Lys Ile Ile Ser Ser Pro Leu
1 5 10 15
Phe Lys Thr Leu Leu Ser Ala Val
20

<210> 509
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>
<223> At positions 9, 20 and 21, D amino acid residues

<400> 509
Lys Lys Gly Phe Phe Ala Leu Ile Pro Lys Ile Ile Ser Ser Pro Leu
1 5 10 15
Phe Lys Thr Leu Leu Ser Ala Val
20

<210> 510
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 7, D amino acid residue

<400> 510

Gly Phe Phe Ala Leu Ile Pro Lys Ile Ile Ser
1 5 10

<210> 511

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 511

Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu
1 5 10 15Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln
20 25

<210> 512

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At positions 5, 8, 17 and 23, D amino acid
residues

<400> 512

Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu
1 5 10 15

Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln
20 25

<210> 513

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At positions 5, 8, 17 and 23, D amino acid
residues

<400> 513

Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu
1 5 10 15

Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln
20 25

<210> 514

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At positions 5, 8, 17 and 21, D amino acid
residues

<400> 514

Gly Ile Gly Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu
1 5 10 15

Ile Ser Trp Ile Lys Arg
20

<210> 515
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>
<223> At positions 2, 5, 14 and 18, D amino acid
residues

<400> 515
Ala Val Leu Lys Val Leu Thr Thr Gly Leu Pro Ala Leu Ile Ser Trp
1 5 10 15
Ile Lys Arg

<210> 516
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>
<223> At positions 3, 4, 8 and 10, D amino acid residues

<400> 516
Lys Leu Leu Leu Leu Lys Leu Leu Leu Lys
1 5 10

<210> 517
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC

PEPTIDE

<220>

<223> At positions 3, 4, 8 and 10, D amino acid residues

<400> 517

Lys Leu Leu Leu Lys Leu Leu Leu Lys Leu Leu Lys
1 5 10

<210> 518

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At positions 3, 4, 8 and 10, D amino acid residues

<400> 518

Lys Leu Leu Leu Lys Leu Lys Leu Leu Lys
1 5 10

<210> 519

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 519

Lys Lys Leu Leu Lys Leu Lys Leu Lys Leu Lys Lys
1 5 10

<210> 520

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 520

Lys Leu Leu Leu Lys Leu Leu Leu Lys Leu Leu Lys
1 5 10

<210> 521

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 521

Lys Leu Leu Leu Lys Leu Lys Leu Lys Leu Leu Lys
1 5 10

<210> 522

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 522

Lys Leu Leu Leu Leu Lys
1 5

<210> 523

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC

PEPTIDE

<400> 523

Lys Leu Leu Leu Lys Leu Leu Lys

1

5

<210> 524

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 524

Lys Leu Leu Leu Lys Leu Lys Leu Lys Leu Leu Lys

1

5

10

<210> 525

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 525

Lys Leu Leu Leu Lys Leu Lys Leu Lys Leu Leu Lys

1

5

10

<210> 526

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 526

Lys Leu Leu Leu Lys Leu Lys Leu Lys Leu Leu Lys
1 5 10

<210> 527

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 527

Lys Ala Ala Ala Lys Ala Ala Ala Lys Ala Ala Lys
1 5 10

<210> 528

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 528

Lys Val Val Val Lys Val Val Val Lys Val Val Lys
1 5 10

<210> 529

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 529

Lys Val Val Val Lys Val Lys Val Lys Val Val Lys
1 5 10

<210> 530
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 530
Lys Val Val Val Lys Val Lys Val Lys Val Lys
1 5 10

<210> 531
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 531
Lys Val Val Val Lys Val Lys Val Lys Val Val Lys
1 5 10

<210> 532
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 532
Lys Leu Ile Leu Lys Leu
1 5

<210> 533

<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 533
Lys Val Leu His Leu Leu
1 5

<210> 534
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 534
Leu Lys Leu Arg Leu Leu
1 5

<210> 535
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 535
Lys Pro Leu His Leu Leu
1 5

<210> 536
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 536

Lys Leu Ile Leu Lys Leu Val Arg
1 5

<210> 537

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 537

Lys Val Phe His Leu Leu His Leu
1 5

<210> 538

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 538

His Lys Phe Arg Ile Leu Lys Leu
1 5

<210> 539

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC

PEPTIDE

<400> 539

Lys Pro Phe His Ile Leu His Leu
1 5

<210> 540

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 540

Lys Ile Ile Ile Lys Ile Lys Ile Lys Ile Ile Lys
1 5 10

<210> 541

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 541

Lys Ile Ile Ile Lys Ile Lys Ile Lys Ile Ile Lys
1 5 10

<210> 542

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 542

Lys Ile Ile Ile Lys Ile Lys Ile Lys Ile Ile Lys
1 5 10

<210> 543

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 543

Lys Ile Pro Ile Lys Ile Lys Ile Lys Ile Pro Lys
1 5 10

<210> 544

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 544

Lys Ile Pro Ile Lys Ile Lys Ile Lys Ile Val Lys
1 5 10

<210> 545

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 545

Arg Ile Ile Ile Arg Ile Arg Ile Arg Ile Ile Arg
1 5 10

<210> 546
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 546
Arg Ile Ile Ile Arg Ile Arg Ile Ile Arg
1 5 10

<210> 547
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 547
Arg Ile Ile Ile Arg Ile Arg Ile Ile Arg
1 5 10

<210> 548
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 548
Arg Ile Val Ile Arg Ile Arg Ile Arg Leu Ile Arg
1 5 10

<210> 549

<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 549

Arg Ile Ile Val Arg Ile Arg Leu Arg Ile Ile Arg
1 5 10

<210> 550
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 550

Arg Ile Gly Ile Arg Leu Arg Val Arg Ile Ile Arg
1 5 10

<210> 551
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 551

Lys Ile Val Ile Arg Ile Arg Ile Arg Leu Ile Arg
1 5 10

<210> 552
<211> 12
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 552

Arg Ile Ala Val Lys Trp Arg Leu Arg Phe Ile Lys
1 5 10

<210> 553

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 553

Lys Ile Gly Trp Lys Leu Arg Val Arg Ile Ile Arg
1 5 10

<210> 554

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 554

Lys Lys Ile Gly Trp Leu Ile Ile Arg Val Arg Arg
1 5 10

<210> 555

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC

PEPTIDE

<400> 555

Arg Ile Val Ile Arg Ile Arg Ile Arg Leu Ile Arg Ile Arg
1 5 10

<210> 556

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 556

Arg Ile Ile Val Arg Ile Arg Leu Arg Ile Ile Arg Val Arg
1 5 10

<210> 557

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 557

Arg Ile Gly Ile Arg Leu Arg Val Arg Ile Ile Arg Arg Val
1 5 10

<210> 558

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 558

Lys Ile Val Ile Arg Ile Arg Ala Arg Leu Ile Arg Ile Arg Ile Arg
1 5 10 15

<210> 559

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 559

Arg Ile Ile Val Lys Ile Arg Leu Arg Ile Ile Lys Lys Ile Arg Leu
1 5 10 15

<210> 560

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 560

Lys Ile Gly Ile Lys Ala Arg Val Arg Ile Ile Arg Val Lys Ile Ile
1 5 10 15

<210> 561

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 561

Arg Ile Ile Val His Ile Arg Leu Arg Ile Ile His His Ile Arg Leu
1 5 10 15

<210> 562
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 562
His Ile Gly Ile Lys Ala His Val Arg Ile Ile Arg Val His Ile Ile
1 5 10 15

<210> 563
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 563
Arg Ile Tyr Val Lys Ile His Leu Arg Tyr Ile Lys Lys Ile Arg Leu
1 5 10 15

<210> 564
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 564
Lys Ile Gly His Lys Ala Arg Val His Ile Ile Arg Tyr Lys Ile Ile
1 5 10 15

<210> 565

<211> 16
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 565

Arg Ile Tyr Val Lys Pro His Pro Arg Tyr Ile Lys Lys Ile Arg Leu
1 5 10 15

<210> 566

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 566

Lys Pro Gly His Lys Ala Arg Pro His Ile Ile Arg Tyr Lys Ile Ile
1 5 10 15

<210> 567

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 567

Lys Ile Val Ile Arg Ile Arg Ile Arg Leu Ile Arg Ile Arg Ile Arg
1 5 10 15

Lys Ile Val

<210> 568

<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 568
Arg Ile Ile Val Lys Ile Arg Leu Arg Ile Ile Lys Lys Ile Arg Leu
1 5 10 15

Ile Lys Lys

<210> 569
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 569
Lys Ile Gly Trp Lys Leu Arg Val Arg Ile Ile Arg Val Lys Ile Gly
1 5 10 15

Arg Leu Arg

<210> 570
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 570
Lys Ile Val Ile Arg Ile Arg Ile Arg Leu Ile Arg Ile Arg Ile Arg
1 5 10 15

Lys Ile Val Lys Val Lys Arg Ile Arg
20 25

<210> 571
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 571
Arg Phe Ala Val Lys Ile Arg Leu Arg Ile Ile Lys Lys Ile Arg Leu
1 5 10 15

Ile Lys Lys Ile Arg Lys Arg Val Ile Lys
20 25

<210> 572
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 572
Lys Ala Gly Trp Lys Leu Arg Val Arg Ile Ile Arg Val Lys Ile Gly
1 5 10 15

Arg Leu Arg Lys Ile Gly Trp Lys Lys Arg Val Arg Ile Lys
20 25 30

<210> 573
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC

PEPTIDE

<400> 573

Arg Ile Tyr Val Lys Pro His Pro Arg Tyr Ile Lys Lys Ile Arg Leu
1 5 10 15

<210> 574

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 574

Lys Pro Gly His Lys Ala Arg Pro His Ile Ile Arg Tyr Lys Ile Ile
1 5 10 15

<210> 575

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 575

Lys Ile Val Ile Arg Ile Arg Ile Arg Leu Ile Arg Ile Arg Ile Arg
1 5 10 15

Lys Ile Val

<210> 576

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC

PEPTIDE

<400> 576

Arg Ile Ile Val Lys Ile Arg Leu Arg Ile Ile Lys Lys Ile Arg Leu
1 5 10 15

Ile Lys Lys

<210> 577

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 577

Arg Ile Tyr Val Ser Lys Ile Ser Ile Tyr Ile Lys Lys Ile Arg Leu
1 5 10 15

<210> 578

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 578

Lys Ile Val Ile Phe Thr Arg Ile Arg Leu Thr Ser Ile Arg Ile Arg
1 5 10 15

Ser Ile Val

<210> 579

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 579

Lys Pro Ile His Lys Ala Arg Pro Thr Ile Ile Arg Tyr Lys Met Ile
1 5 10 15

<210> 580

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 1, disulfide bond to position 26

<220>

<223> At position 26, disulfide bond to position 1

<400> 580

Xaa Cys Lys Gly Phe Phe Ala Leu Ile Pro Lys Ile Ile Ser Ser Pro
1 5 10 15

Leu Phe Lys Thr Leu Leu Ser Ala Val Cys
20 25

<210> 581

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 581

Cys Lys Lys Gly Phe Phe Ala Leu Ile Pro Lys Ile Ile Ser Ser Pro
1 5 10 15

Leu Phe Lys Thr Leu Leu Ser Ala Val Cys
20 25

<210> 582

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 582

Cys Lys Lys Lys Gly Phe Phe Ala Leu Ile Pro Lys Ile Ile Ser Ser
1 5 10 15

Pro Leu Phe Lys Thr Leu Leu Ser Ala Val Cys
20 25

<210> 583

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 1, disulfide bond to position 17

<220>

<223> At position 17, disulfide bond to position 1

<400> 583

Xaa Cys Arg Ile Val Ile Arg Ile Arg Ile Arg Leu Ile Arg Ile Arg
1 5 10 15

Cys

<210> 584

<211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:VIP MIMETIC
 PEPTIDE

<220>
 <223> At position 1, disulfide bond to position 19

<220>
 <223> At position 19, disulfide bond to position 1

<400> 584
 Xaa Cys Lys Pro Gly His Lys Ala Arg Pro His Ile Ile Arg Tyr Lys
 1 5 10 15

Ile Ile Cys

<210> 585
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:VIP MIMETIC
 PEPTIDE

<220>
 <223> At position 1, disulfide bond to position 29

<220>
 <223> At position 29, disulfide bond to position 1

<400> 585
 Xaa Cys Arg Phe Ala Val Lys Ile Arg Leu Arg Ile Ile Lys Lys Ile
 1 5 10 15

Arg Leu Ile Lys Lys Ile Arg Lys Arg Val Ile Lys Cys
 20 25

<210> 586

<211> 13
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 586

Lys Leu Leu Leu Lys Leu Leu Leu Lys Leu Leu Lys Cys
1 5 10

<210> 587

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 587

Lys Leu Leu Leu Lys Leu Leu Leu Lys Leu Leu Lys
1 5 10

<210> 588

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 588

Lys Leu Leu Leu Lys Leu Lys Leu Lys Leu Leu Lys Cys
1 5 10

<210> 589

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 589

Lys Leu Leu Leu Lys Leu Leu Leu Lys Leu Leu Lys
1 5 10

<210> 590

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 590

His Ser Asp Ala Val Phe Tyr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
20 25

<210> 591

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 591

Asn Leu Glu His Ser Asp Ala Val Phe Tyr Asp Asn Tyr Thr Arg Leu
1 5 10 15

Arg Lys Gln Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
20 25 30

<210> 592

<211> 4
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 1, Xaa is absent or is ala, val,
ala-val, val-ala, L-lys, D-lys, ala-lys, val-lys,
ala-val-lys, val-ala-lys, or an ornithinyl residue

<220>

<223> At position 2, Xaa is L-lys, D-lys or an
ornithinyl residue

<220>

<223> At position 3, Xaa is L-tyr, D-tyr, phe, trp or a
p-aminophenylalanyl residue

<220>

<223> At position 4, Xaa is a hydrophobic aliphatic
amino acid residue (X5), X5-leu, X5-norleucyl,
X5-D-ala, X5-asn-ser, X5-asn-ser-ile,
X5-asn-ser-tyr, X5-asn-ser-ile-leu,
X5-asn-ser-tyr-leu,

<220>

<223> or X5-asn-ser-tyr-leu-asn

<400> 592

Xaa Xaa Xaa Xaa

1

<210> 593

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 1, Xaa is either absent, a hydrophobic

aliphatic residue (X5), X5-asn, tyr-X5, lys-X5,
lyx-S5-asn, lys-tyr-X5, lys-tyr-X5-as,
lys-lys-tyr-X5, lys-lys-tyr-X5-asn,
val-lys-lys-tyr-X5,

<220>

<223> val-ala-lys-lys-tyr-X5-asn, or
ala-val-lys-lys-tyr-X5-asn

<220>

<223> At position 3, Xaa is ile or tyr

<400> 593

Xaa Ser Xaa Leu Asn
1 5

<210> 594

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At positions 1 and 6, Xaa are cross-linked amino
acid residues in which the sidechain linker group
is (CH₂)_m-Z-(CH₂)_n wherein Z is -CONH-, -NHCO-,
-S-S-, -S(CH₂)tCO-NH or -NH-CO(CH₂)tS-; m is 1 or
2

<220>

<223> when Z is -NH-CO- or -NH-CO(CH₂)tS-; n is 1 or 2
when Z is -NH-CO-, -S-S- or -NH-CO(CH₂)tS, or n is
2, 3 or 4 when Z is -CONH- or -S(CH₂)tCO-NH-

<220>

<223> At position 5, Xaa is a hydrophobic aliphatic
amino acid residue

<220>

<223> At position 7, Xaa is a covalent bond or Asn, Ser,
Ile, Tyr, Leu, Asn-Ser, Asn-Ser-Ile, Asn-Ser-Tyr,
Asn-Ser-Ile-Leu, Asn-Ser-Tyr-Leu,
Asn-Ser-Ile-Leu-Asn or Asn-Ser-Tyr-Leu-Asn

<400> 594

Xaa Lys Lys Tyr Xaa Xaa Xaa

1

5

<210> 595

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 595

Lys Lys Tyr Leu

1

<210> 596

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 596

Asn Ser Ile Leu Asn

1

5

<210> 597

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 597

Lys Lys Tyr Leu

1

<210> 598

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 4, D amino acid residue

<400> 598

Lys Lys Tyr Ala

1

<210> 599

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 599

Ala Val Lys Lys Tyr Leu

1

5

<210> 600

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 600

Asn Ser Ile Leu Asn

1

5

<210> 601

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 601

Lys Lys Tyr Val

1

<210> 602

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 3, Xaa is a lauric acid residue

<400> 602

Ser Ile Xaa Asn

1

<210> 603

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 5, Xaa is a norleucyl residue

<400> 603

Lys Lys Tyr Leu Xaa

1

5

<210> 604

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 604

Asn Ser Tyr Leu Asn

1

5

<210> 605

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 605

Asn Ser Ile Tyr Asn

1

5

<210> 606

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 606

Lys Lys Tyr Leu Pro Pro Asn Ser Ile Leu Asn

1

5

10

<210> 607

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 1, Xaa is a lauric acid residue

<400> 607

Xaa Lys Lys Tyr Leu

1

5

<210> 608

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 1, Xaa is a caproic acid residue

<400> 608

Xaa Lys Lys Tyr Leu

1

5

<210> 609

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 4, Xaa is a norleucyl residue

<400> 609

Lys Lys Tyr Xaa

1

<210> 610

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 610

Val Lys Lys Tyr Leu

1

5

<210> 611

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 611

Leu Asn Ser Ile Leu Asn

1

5

<210> 612

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 612

Tyr Leu Asn Ser Ile Leu Asn

1

5

<210> 613

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 613

Lys Lys Tyr Leu Asn

1

5

<210> 614

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 614

Lys Lys Tyr Leu Asn Ser

1

5

<210> 615

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 615

Lys Lys Tyr Leu Asn Ser Ile

1

5

<210> 616

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 616

Lys Lys Tyr Leu Asn Ser Ile Leu

1

5

<210> 617

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 617

Lys Lys Tyr Leu

1

<210> 618

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 618

Lys Lys Tyr Asp Ala

1

5

<210> 619
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 619
Ala Val Lys Lys Tyr Leu
1 5

<210> 620
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 620
Asn Ser Ile Leu Asn
1 5

<210> 621
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 621
Lys Lys Tyr Val
1

<210> 622
<211> 4

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>
<223> At position 3, Xaa is a lauric acid residue

<400> 622
Ser Ile Xaa Asn
1

<210> 623
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 623
Asn Ser Tyr Leu Asn
1 5

<210> 624
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 624
Asn Ser Ile Tyr Asn
1 5

<210> 625
<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>
<223> At position 5, Xaa is a norleucyl residue

<400> 625
Lys Lys Tyr Leu Xaa
1 5

<210> 626
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 626
Lys Lys Tyr Leu Pro Pro Asn Ser Ile Leu Asn
1 5 10

<210> 627
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 627
Lys Lys Tyr Leu
1

<210> 628
<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 628

Lys Lys Tyr Asp Ala

1

5

<210> 629

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 629

Ala Val Lys Lys Tyr Leu

1

5

<210> 630

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 630

Asn Ser Ile Leu Asn

1

5

<210> 631

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 631

Lys Lys Tyr Val

1

<210> 632

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 3, Xaa is a lauric acid residue.

<400> 632

Ser Ile Xaa Asn

1

<210> 633

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 633

Leu Ala Lys Lys Tyr Leu

1

5

<210> 634

<211> 7

<212> PRT...

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 634

Cys Ala Pro Lys Lys Tyr Leu
1 5

<210> 635

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 4, Xaa is a norleucyl residue

<400> 635

Lys Lys Tyr Xaa
1

<210> 636

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 636

Val Lys Lys Tyr Leu
1 5

<210> 637

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 637

Leu Asn Ser Ile Leu Asn

1

5

<210> 638

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 638

Tyr Leu Asn Ser Ile Leu Asn

1

5

<210> 639

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 5, Xaa is a norleucyl residue

<400> 639

Lys Lys Tyr Leu Xaa

1

5

<210> 640

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 640

Lys Lys Tyr Leu Asn

1

5

<210> 641

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 641

Lys Lys Tyr Leu Asn Ser

1

5

<210> 642

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 642

Lys Lys Tyr Leu Asn Ser Ile

1

5

<210> 643

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 643

Lys Lys Tyr Leu Asn Ser Ile Leu

1

5

<210> 644

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 644

Lys Lys Lys Tyr Leu Asp

1

5

<210> 645

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At positions 1, 6 disulfide cross-linked

<400> 645

Xaa Cys Lys Lys Tyr Leu Cys

1

5

<210> 646

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At positions 1, 6 cross-linked by S-CH₂-CO

<400> 646

Cys Lys Lys Tyr Leu Lys
1 5

<210> 647

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<220>

<223> At position 4, D amino acid residue

<400> 647

Lys Lys Tyr Ala
1

<210> 648

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 648

Trp Trp Thr Asp Thr Gly Leu Trp
1 5

<210> 649

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 649

Trp Trp Thr Asp Asp Gly Leu Trp
1 5

<210> 650

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 650

Trp Trp Asp Thr Arg Gly Leu Trp Val Trp Thr Ile
1 5 10

<210> 651

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE

<400> 651

Phe Trp Gly Asn Asp Gly Ile Trp Leu Glu Ser Gly
1 5 10

<210> 652

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:VIP MIMETIC
PEPTIDE